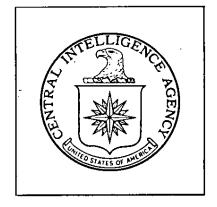
Approved For Release 2008/05/20: CIA-RDP79T00909A000700010012-6

Top Secret



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Selected Cement Plants China

Top Secret

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PAGES 52



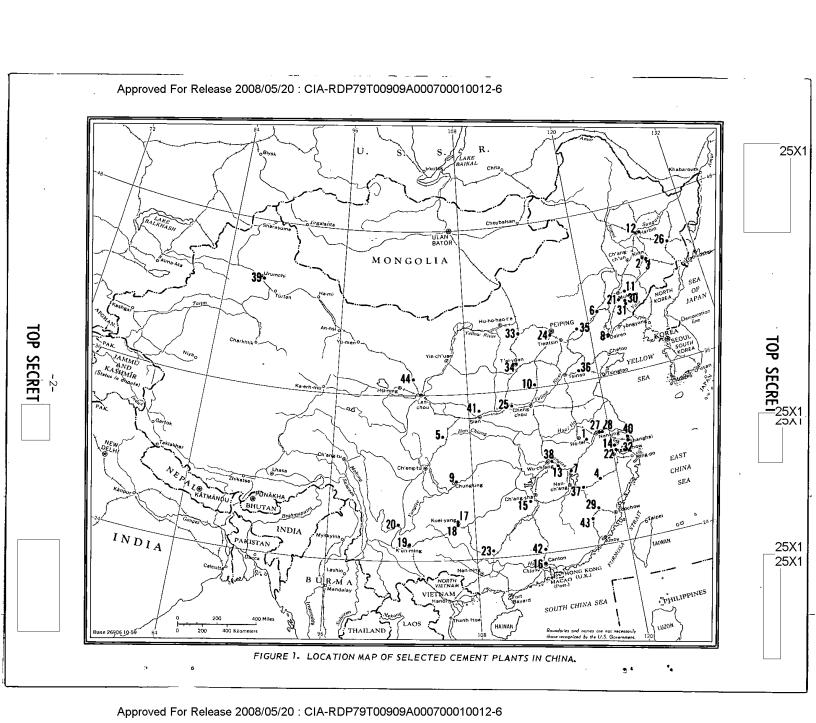
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CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service

ABSTRACT

This report covers 44 major cement plants in China, which are all those known to be equipped with rotary kilns as of January 1970. It includes the initial basic studies on four plants at Chi-lin, Hu-chou, Liao-yang, and Lin-ping, and provides updates for 37 of the 40 plants covered in the previous Basic Imagery Interpretation Report on cement plants in China. The other three plants, at Chao-hsien, Fu-shun, and Nan-ping, have not been seen on interpretable photography since the previous report. This report covers the period April 1969 to January 1970.

Of the 44 plants, the three at Wan-nien, Ying-te, and Yung-an remain incomplete. The other 41 plants are complete and considered operational. They contain at least 90 and probably 96 rotary kilns. During the period of this study, 69 rotary kilns were observed in operation at 35 plants. No kilns were seen in operation at Chung-ching, Liao-yang, and Pen-chi South. No new construction was initiated at any of the plants during 1969. Only one new kiln, a fourth kiln at the Tzu-po plant, is known to have been completed and put into operation during the year.



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INTRODUCTION

This report presents information on the current status of the following major cement plants in China:

- I. Chao-hsien Cement Plant.
- 2. Chi-lin (Kirin) Cement Plant.
- 3. Chi-lin Cement Plant 2.
- 4. Chiang-shan Cement Plant.
- 5. Chien-ko Cement Plant.
- 6. Chin-hsi Cement Plant.
- 7. Chiu-chiang Cement Plant.
- 8. Chou-shui-tzu Cement Plant.
- 9. Chung-ching (Chungking) Cement Plant.
- 10. Feng-feng Cement Plant.
- II. Fu-shun Cement Plant.
- 12. Ha-erh-pin (Harbin) Cement Plant.
- 13. Huang-shih Cement Plant.
- 14. Hu-chou Cement Plant.
- 15. Ku-shui Cement Plant,
- 16. Kuang-chou (Canton) Cement Plant.
- 17. Kuei-yang Cement Plant 2.
- 18. Kuei-yang Cement Plant 3.
- 19. Kun-ming Cement Plant.
- 20. Kuo-kuo Cement Plant.
- 21. Liao-yang Cement Plant.
- 22. Lin-ping Cement Plant.
- 23. Liu-chou Cement Plant.
- 24. Liu-li-ho Cement Plant.
- 25. Miao-tou-chai Cement Plant Shih-fu.
- 26. Mu-tan-chiang Cement Plant Wen-chuan.
- 27. Nan-ching (Nanking) Cement Plant Kiang-nan.
- 28. Nan-ching Cement Plant Lung-tan.
- 29. Nan-ping Cement Plant.
- 30. Pen-chi Cement Plant Kung-yuan.
- 31. Pen-chi Cement Plant South.
- 32. Shang-hai Cement Plant.
- 33. Ta-tung Cement Plant.
- 34. Tai-yuan Cement Plant.
- 35. Tang-shan Cement Plant Chi-hsin.
- 36. Tzu-po Cement Plant Nan-ting.
- 37. Wan-nien Possible Cement Plant.
- 38. Wu-chang Cement Plant.

	TOP SECRE	: T	
·	39. Wu-lu-mu-chi (Urumchi) 40. Wu-sung Cement Plant. 41. Yao-hsien Cement Plant 42. Ying-te Cement Plant.		
	43. Yung-an Cement Plant. 44. Yung-teng Cement Plant	r.	
Requireme	+		
COMIRE. Suppor	(NOI Number 420361		
Document	Reference		
CIA.	RCS 13/0145/69, Selected Cement TOP SECRET	Plants, China, June 1969,	

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INSTALLATION OR AC	TIVITY NAME		COUNTRY
Chao-hsien Ceme	ent Plant		СН
UTM COORDINATES	GEOGRAPHIC COORDINATES		•
50RNK799988	31-37-20N 117-50-10E		
MAP REFERENCE		-	
8th RTS. USATO (SECF	C, Series 200, Sheet M049 RET/	3-4HL, 4th ed, Apr 68, Scal	e 1:200,000
LATEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA NA	

NOTICE

The Chao-hsien Cement Plant has not been seen on interpretable photography since February 1969, the date of the latest imagery used in the previous report.

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STALLATION OR	ACTIVITY NAME		COUNTRY	-
ni-lin Ceme	nt Plant		, CĤ	
TM COORDINATE				
2TCD030622	43-53-05N 126	5-32-30E		
U	SATC, Series 200, SECRET	Sheet MO29	90-3HL, 3rd ed, Jul 65, Scale I:200,000	2 <u></u>
TEST IMAGERY	JSED		NEGATION DATE (If required)	•
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		Chi-lin C			sector	of Chi-lin a	adjacent
occupies a fenced area approximately 1 200 by 550 feet	occupies a fenced area approximately 1,200 by 550 feet.		ement Plant 2 <u>is located</u>	in the northern	sector (of Chi-lin a	adjacent
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TOP SECRET		to the Chi-lin	ement Plant 2 is located Carbide Plant ced area approximately l	in the northern It is r ,200 by 550 feet	oad and t	of Chi-lin a	adjacent and

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This plant produces cement by the wet process. It has one rotary kilm who measures In addition to those items annotated on the photograph the plant includes a primary crushing and grinding section, a coal preparation building, and four storage silos. Construction of this plant began between November 1965 and January 1966. appeared to be structurally complete on photography of August 1968 and was first observed in operation in December 1968. Heavy smoke has been seen emanating for the kilm stack on all subsequent coverage.	ph, 25X [°] † st
	25X



ISTALLATION OR AC	TIVITY NAME		COUNTRY
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hien-ko Cemen	t Plant		СН
TM COORDINATES	GEOGRAPHIC COORDINATES 32-05-00N 105-06-00E		
AP REFERENCE	J2-03-00N 103-00-00L		
CIC. Tactica (UNCLAS		G-9D, May 67, Scale !:500,000	
ATEST IMAGERY USI	ED	NEGATION DATE (If required)	
		NA	
		IVA	
	BASIC	DESCRIPTION	
		in the Chien-ko Cement Plant sed in the previous report.	since November
One of th	e three kilns was in ope	ration on as ev	idenced by a
oderate amoun	t of smoke emanating fro	m one of the three stacks.	raciiced by a

-10-

TOP SECRET

INSTALLATION OF AC		***	
MSTALLATION ON AC	CTIVITY NAME		COUNTRY
Chin-hsi Cemen	t Plant		CH
	GEOGRAPHIC COORDINATES		I CH
51TUF188130	40-45-42N 120-51-01E		
MAP REFERENCE			
		39-24HL, 4th ed. Aug 69. Sc	ale :200.000
	CRET	LAUGOATION DATE (IS required)	
LATEST IMAGERY US	EU	NEGATION DATE (If required)	
		NA NA	
November 1968,	the date of the latest in	in the Chin-hsi Cement Plan magery used in the previous	report.
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			1

TOP SECRET

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SECRET

hiu-chiang Ceme			COUNTRY
	nt Plant		
	III FIGIII		CH
	GEOGRAPHIC COORDINATES		
ORMH 20753	29-36-25N 16-05-30E		
AP REFERENCE			
5th RIS. USAIC (SECR		93-12HL. 2nd ed. Oct 67. Scal	e 1:200.000
ATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	
Smoke was e	manating from the stack	serving the kiln on all the	referenced
magery.			

NSTALLATION OR ACTIVITY NAME		COUNTRY	-
			_
hou-shui-tzu Cement Plant TM COORDINATES GEOGRAPHIC CO		СН	[·]
	121-32-18E		
AP REFERENCE	121 32 100		
5th RTS. USATC, <u>Series 20</u>	00, Sheet M0381-9HL, 3rd e	d. Mav 67. Scale 1:200.000	1 4
(SECRET	NEGATION DATE	: (If required)	2
ATEST IMPOUNT OSED	WEGATION DATE	. (ti leguiteu)	
]	NA	
	BASIC DESCRIPTION		
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nere has been no appa ebruary 1969, the date of	arent change in the Chou-si the latest imagery used in	hui-tzu Cement Plant since n the referenced report.	
Heavy smoke was emanat	ting from both stacks, ind		
ere operating on all the r	referenced imagery	icating that the two kilns	
ere operating on all the r	referenced imagery.	icating that the two kilns	
ere operating on all the r	referenced imagery.	icating that the two kilns	
ere operating on all the r	referenced imagery.	icating that the two kilns	
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STALLATION OR AC	TIVITY NAME			COUNTRY	•
nung-ching Cen	nent Plant			СН	
M COORDINATES	GEOGRAPHIC COORDINA				
RXH518693	29-32-40N 106-3	34+03E			
5th RTS. USAT	C, Series 200, Sh	neet M0495-19HL, 3r	d ed. Mar 68. S	Scale 1:200.000	
TEST IMAGERY USE	D	NEGATION D	ATE (If required)	.	
			NA		
ugust 1968, th The plant	e date of the lat	BASIC DESCRIPTION change in the Chun est imagery used in be in operation is smoke was seen iss	n the previous n August 1969,	report. the date of the	
ugust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
ugust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
ugust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
gust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
gust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
gust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
gust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	
gust 1968, th The plant	e date of the lat	change in the Chun rest imagery used i be in operation i	n the previous n August 1969,	report. the date of the	

eng-feng Cement Plant M COORDINATES GEOGRAPHIC COOR OSKR502383 36-26-00N I	RDINATES			
M COORDINATES GEOGRAPHIC COOR SKR502383 36-26-00N I P REFERENCE	RDINATES		· · · · · · · · · · · · · · · · · · ·	
SKR502383 36-26-00N I	RDINATES	<u> </u>	CH	
PREFERENCE	14 10 205			
	14-10-206			
th RTS _ HSATC Series 200). Sheet M0382-24HL.	3rd ed. Aug 67. 9	Scale 1:200.000	
(SECRET)	, 511001 MOSOE #111E;	<u> </u>	30010 11200,000	
TEST IMAGERY USED	NEGATIO	N DATE (If required)		
		NA		
	BASIC DESCRIPT	311		
There was a moderate an dicating that two kilns we				

Арі	proved For Release	2008/05/20 : CIA-RDP79T0090 TOP SE		25
-	INSTALLATION OR AC	TIVITY NAME		COUNTRY
	Fu-shun Cement	Plant		CH
•	UTM COORDINATES 51TWG719326	GEOGRAPHIC COORDINATES 41-51-01N 123-51-49E		25
[CRET	0-11HL, 4th ed, Jan 66, Scal	e 1:200,000 25 25
		 	NA	

NOTICE

The Fu-shun Cement Plant has not been seen on interpretable photography since April 1969, the date of the latest imagery used in the previous report.

-16-

TOP SECRET

25X1

NSTALLATION OR AC	CTIVITY NAME		COUNTRY
	L D 1t		CH
a-erh-pin Cem TM COORDINATES	GEOGRAPHIC COORDINATES	7	1 011
2TCF220782	45-49-45N 126-42-59E		
AP REFERENCE			
5th RTS. USA	TC, Series 200. Sheet MO2	<u> 283-13HL, 2nd ed, Dec 64, S</u> ca	le 1:200,000
(SE	CRET.		
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		I	
anuary 1969,	been no apparent change the date of the latest in	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in	DESCRIPTION in the Ha-erh-pin Cement Pla	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.
anuary 1969, Moderate	been no apparent change the date of the latest in to heavy smoke was emana	DESCRIPTION in the Ha-erh-pin Cement Pla magery used in the previous r	eport.

	1Ur 3	0909A000700010012-6
NSTALLATION OR AC	TIVITY NAME	COUNTRY
uang-shih Ceme		CH
TM COORDINATES	GEOGRAPHIC COORDINATES	
ORLJ I 5 I 448	30-13-22N 115-04-20E	
	C. Series 200. Sheet MO49	93-11HL, 4th ed, Jul 68, Scale 1:200,000
(SEC	RET,	
ATEST IMAGERY USE	ED	NEGATION DATE (If required)
		NA
There has		DESCRIPTION in the Huang-shih Cement Plant since
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	DESCRIPTION in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating the plant did not appear to be operating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were o	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In Decemberrom the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In Decemberrom the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating
lovember 1967, In December From the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since imagery used in the previous report. Operating, as indicated by smoke emanating

NSTALLATION OR AC	TIVITY NAME			COUNTRY	_
lu-chou Cement	Plant			CH	. •
TM COORDINATES	GEOGRAPHIC COORE	DINATES			2
IRTE221273	30-56-42N 12	20-05 - 30E			
MAP REFERENCE					
		et M0492-6H	IL, 4th ed, Oct 67, Scal	e i:200,000	_
SECRET,			NEGATION DATE (If required)		_ 2
ATEST MARGENT OSE	.0		, the difficult of the terms of		
			NA		2
					-
					2

Hu-chou Cement Plant is located 4.8 nm north of the center of Hu-chou. The plant is road and water served; partially secured by a wall, and occupies an area approximately 1,000 by 950 feet.

TOP SECRET

25X1

ed For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6
TOP SECRET
This plant produces cement using the wet process. The raw materials for production are obtained from a quarry 3,500 feet to the north and transed to the plant by barge. Most of the preparation of materials takes place he quarry, with the final preparation at the plant.
The plant has one rotary kiln measuring 220 by 10 feet which is served by arge masonry stack. In addition to those items annotated on the photograph, plant includes a coal preparation facility, a gypsum preparation section, a king and shipping building with six silos, and several support buildings.
Except for the storage silos and the packing and shipping building, the nt was complete and operating in February 1962. The storage and shipping ility was built between December 1964 and October 1965. Smoke was seen nating from the stack on all the referenced coverage except October 1965 and the day 1966.

	TOP	SECRET		
	101	JECKET		
STALLATION OR AC	TIMES NAME			
STALLATION OF AC	IIVITY NAME			COUNTRY
ı-shui Cement	Plant			
M COORDINATES	GEOGRAPHIC COORDINATES			CH
RFA178691	27-44-00N 2- 2-00	F		
P REFERENCE				
ith RTS. USAT	TC, Series 200, Sheet	M0497-5HL. 2nd ed	d. Nov 65. Scal	e 1.200 000
(SEC	CRETA	, =		
TEST IMAGERY USE	:D	NEGATION DATE	(If required)	
			NA	
	2.0	IC DESCRIPTION		
There has	been no apparent chang	ge in the Ku-shui	Cement Plant	since February
оэ, тое дате	of the latest imagery	used in the prev	vious report.	
In Septemb	er 1969 smoke was see	n emanating from	both dust catc	hers
dicating that	the two kilns were in	n operation. In	July the plant	did not
bear to be ob	perating as no dust o	r smoke was seen.		

STALLATION OR AC	TIVITY NAME		COUNTRY
	A Dist		СН
ang-chou Ceme	GEOGRAPHIC COORDINATES		
QGR292630	23-09-10N 113-14-15E		
P REFERENCE			
USAT	C, <u>Series 200, Sheet M06</u>	14-6HL, 5th ed, May 68, Scale	1:200,000
(SEC	CRET		
TEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA	
There has ebruary 1969,	the date of the latest co	in the Kuang-chou Cement Plar overage in the previous repor nating from two of the four c ing that two of the four kilr	ust catchers
A moderat n September a peration.	nd December 1969 indicat		
n September a	nd December 1969 indicat		

-22-

THE COORDINATES GEOGRAPHIC COORDINATES 8RXE672385 26-33-21N 106-40-45E AP REFERENCE 5th RTS. USATC, Series 200, Sheet M0496-10HL, 2nd ed, Oct 65, Scale 1:200.000 (SECRET) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the					
### COORDINATES GEOGRAPHIC COORDINATES ####################################	NSTALLATION OR AC	CTIVITY NAME		COUNTRY	_
JATEST IMAGERY USED BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	Kuei-yang Ceme	nt Plant 2		CH	
AP REFERENCE 15th RTS. USATC, Series 200, Sheet M0496-10HL, 2nd ed, Oct 65, Scale 1:200.000 (SECRET) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	TM COORDINATES	GEOGRAPHIC COORDINATES		1 0,,	
There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	18RXE672385	26-33-21N 106-40-4	5E		
ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the					-
ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	5th RTS. USA	TC. Series 200. Sheet	M0496-10HL 2nd ed Oct 65	Scale 1:200 000	
BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	(SE	CRÉT/		Jeare 1.200.000	7 2
BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the	ATEST IMAGERY USI	ED	NEGATION DATE (If required)		
BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the siln was in operation, but no smoke was visible in August.					
BASIC DESCRIPTION There has been no apparent change in Kuei-yang Cement Plant 2 since April 1968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the kiln was in operation, but no smoke was visible in August.					
There has been no apparent change in Kuei-yang Cement Plant 2 since April 968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the kiln was in operation, but no smoke was visible in August.			NA		_
968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the siln was in operation, but no smoke was visible in August.		BA:	SIC DESCRIPTION		
1968, the date of the latest imagery used in the previous report. Light smoke was emanating from the stack in March 1969 indicating the ciln was in operation, but no smoke was visible in August.					
kiln was in operation, but no smoke was visible in August.	There has 968, the date	been no apparent char of the latest imagery	nge in Kuei-yang Cement Plan y used in the previous repor	t 2 since April t.	
kiln was in operation, but no smoke was visible in August.	light smo	ko waa amanatire form	#ha ===== : M		
	iln was in on	ke was emanating from	The Stack in March 1969 inc	licating the	
	"шо тт ор	erarion, but no amone	"45 VISIDIE III August.		
				•	

		COUNTRY	
Kuei-yang Ceme	nt Plant 3	СН	
TM COORDINATES	GEOGRAPHIC COORDINATES		
8RXE664350	26-31-30N 106-40-15	5E	
AP REFERENCE 5th RTS. USA	TC, Series 200, Sheet	M0496-IOHL, 2nd ed, Oct 65, Scale I:200,000	
	CRET		
ATEST IMAGERY USE	D	NEGATION DATE (If required)	•
		NA	2
	been no apparent char	nge in Kuei-yang Cement Plant 3 since April	
968, the date A moderat	been no apparent char of the latest imagery e amount of smoke was		
968, the date A moderat	been no apparent char of the latest imagery e amount of smoke was	nge in Kuei-yang Cement Plant 3 since April y used in the previous report. emanating from two of the four dust catchers	

	CTIVITY NAME	COUNTRY	-
Kun-ming Cemer		СН	
ITM COORDINATES	GEOGRAPHIC COORDINATES		
8RTC600688	25-00-45N 102-37-20E		
(SECRET		NEGATION DATE (If required)	_
		NA	
	s been no apparent change	e in the Kun-ming Cement Plant since May	
968, the date	e of the latest imagery u	g in February 1969 as indicated by smoke	
968, the date	e of the latest imagery use two kilns was operating one dust catcher.	·	
968, the date $\frac{1}{2}$	e of the latest imagery use two kilns was operating one dust catcher.	g in February 1969 as indicated by smoke	

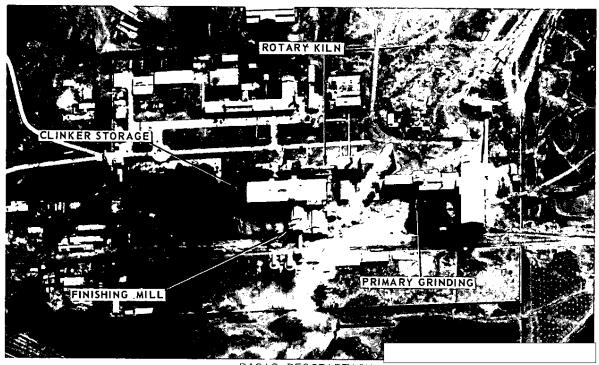
		-			
STALLATION OR AC	CTIVITY NAME			COUNT	RY
					CH
o-kuo Cement			BE NUMBER	COMIREX NO.	
	GEOGRAPHIC COORDINATES	_		ľ	Ĭ
47RQV569445 AP REFERENCE	26-35-55N 101-34-40	E	None	None	None
1954 (UN	500, NG 47-8, Yung-she CLASSIFIED)			1:250,000,	lst ed,
ATEST IMAGERY US	ED	NEGATION DA	ATE (If required)		
			N/	4	
	BAS	IC DESCRIPTION	I		
1969, the date A light a	been no apparent chan of the latest imagery	ge in the Kuo- used in the p	kuo Cement P revious repo	Plant since (
1969, the date A light a	been no apparent chan of the latest imagery	ge in the Kuo- used in the p	kuo Cement P revious repo	Plant since (
969, the date A light a	been no apparent chan of the latest imagery	ge in the Kuo- used in the p	kuo Cement P revious repo	Plant since (
1969, the date A light a	been no apparent chan of the latest imagery	ge in the Kuo- used in the p	kuo Cement P revious repo	Plant since (

-26-

TOP SECRET

Approved For Release 2008	/05/20 : CIA-RDP79T00909A000700010 IOP SECRET	J012-6		2
	101 SEEKET			_
INSTALLATION OR ACTIVITY	NAME		COUNTRY	

Liao-yang Cement Plant UTM COORDINATES GEOGRAPHIC COORDINATES BE NUMBER COMIREX NO. NIETB NO. 51TWF285635 41-13-35N 123-20-15E None None None MAP REFERENCE USATC, <u>Series 200. Sheet M0290-16HL. 4th ed. Jul 65</u> Sqale 1:200,000 (SECRET LATEST IMAGERY USED NEGATION DATE (If required) NA



BASIC DESCRIPTION

Liao-yang Cement Plant is located 7.5 nm southeast of the center of Liao-yang. The plant is road and rail served, secured by a wall, and occupies an area approximately 1,300 by 850 feet.

This plant produces cement by the dry process. The raw materials are brought to the plant by small mine cars from a quarry 2,500 feet to the south.

TOP SECRET

25X1 25X1

Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6

25X1

25X1

25X1

25X1

TOP SECRET	25X1
The plant has one partially housed rotary kiln served by a large masonry stack. The visible portion of the kiln measures 120 feet and it is estimated that the housed portion is 80 feet long. In addItion to those facilities annotated on the photograph, the plant includes a coal preparation facility, a gypsum preparation section, a raw material storage building, a packing and shipping facility with four storage silos, a transformer substation with one transformer, an administration/test building, and numerous support buildings. A probable mining explosive storage facility with four small bunkered buildings is located 850 feet south of the plant. The plant was constructed prior to December 1961 and there has been no apparent change since that time. Smoke was seen emanating from the stack in December 1961, January and August 1962, May 1963, September 1964, and April and November 1966, indicating that the plant was operating.	25X1
	25X′
= 78=	
TOP SECRET	25X1

Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6

roved For Release 2008/05/20 : CIA-RDP79T00909A0007000	2
NSTALLATION OR ACTIVITY NAME	COUNTRY
_in-ping Cement Plant	.*
JTM COORDINATES GEOGRAPHIC COORDINATES	
51RTD339672 30-24-30N 120-13-45E	
IAP REFERENCE	A
CIC. USATC, Series 200, Sheet M0492-6HL, 4th ed	Act 67 Scala 1.200 000
	TE (If required)
	NA 2
——————————————————————————————————————	
	2

Lin-ping Cement Plant is located 2.9 nm southwest of Lin-ping. The plant is road served, partially secured by a wall, and occupies an area approximately 1,100 by 750 feet.

-29-

TOP SECRET

- Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6

∖ppro	ved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6 TOP SECRET	25/01
TI by th pa ch in	This plant produces cement by the dry process. The raw materials are taken from two quarries just southwest of the plant and moved to the plant by a conveyor. Here is probably one rotary kiln housed in a building 200 by 35 feet and served by a large masonry stack. In addition to those items annotated on the photograph, the plant includes a coal preparation section, a gypsum preparation section, a acking and shipping facility with 14 storage silos, and several support buildings. The plant was complete and operating in February 1962. The only apparent mange since that date has been the lengthening of the raw materials storage buildings. Smoke was issuing from the stack, indicating that the plant was operating, and all referenced photography except July 1962, May 1966, January 1967, November 1968, and February 1969.	
		25X1
		25V1
	TOP SECRET	25X1 25X1

Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6

STALLATION OR AC	TIVITY NAME		COUNTRY	
iu-chou Cemen	t Plant		СН	•
TM COORDINATES	GEOGRAPHIC COORDINATES			
9RCS 225963	24-22-20N 109-15-20E			• ,
P REFERENCE				
		22HL, 2nd ed, Apr 65, Scal	e 1:200,000	
(SECRET.	<u></u>	NEGATION DATE (If required)		
TEST IMAGERY USE	ED	NEGATION DATE (IT required)		
		N <u>A</u>		
969, the date A mode <u>rat</u>	been no apparent change of the latest imagery us e amount of smoke was ema	DESCRIPTION in the Liu-chou Cement Placed in the previous reportenating from all three dusting that all three kilns w	· t catchers on	
969, the date	been no apparent change of the latest imagery us e amount of smoke was ema	in the Liu-chou Cement Pl sed in the previous report	· t catchers on	
969, the date A mode <u>rat</u>	been no apparent change of the latest imagery us e amount of smoke was ema	in the Liu-chou Cement Pl sed in the previous report anating from all three dus	· t catchers on	

Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6

NSTALLATION OR ACT	IVITY NAME		COUNTRY
		·	
_iu-li-ho Cemen	t Plant		CH
JTM COORDINATES	GEOGRAPHIC COORDINATES		
50SMU161836	39-35-51N 16-01-4 E		
AP REFERENCE	 		
ACIC. USATC, S	eries 200, Sheet M038l-1	IHL, 4th ed, Nov 65, Scale	1:200,000
(SECRET		NEGATION DATE (If required)	<u></u>
ATEST IMAGERY USE	D	NEGATION DATE (IT required)	
		NA NA	
There has	been no annarent change	in the Liu-li-ho Cement F	Plant since
November 1968,	the date of the latest	imagery used in the previo	ous report.
	emanating from one of t		and from both

-32-

TOP SECRET

	e 2008/05/20 : CIA- 	TOP SECR				25
		·				
		.				
INSTALLATION OR A	CTIVITY NAME	<u> </u>			COUNTRY	
				•		
Miao-tou-chai	Cement Plant Sh	ih-fu	<u> </u>		CH	• •
UTM COORDINATES	GEOGRAPHIC COORD					25
49SEJ 935439	34-44-00N 11	2-01-00E				٠,
15th RTS. USA	TC, Series 200,	Sheet M0385-8	BHL, 2nd ed. Ma	v 66. Scale	1:200.000	
ATEST IMAGERY US		I N	EGATION DATE (If requ	nired)		25
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
				NA		25
There has November 1968,	been no apparer	BASIC DESC nt change in t e latest image	he Miao-tou-ch	ai Cement P previous re	lant since eport.	
A moderat	been no apparenthe date of the eamount of smoking that	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	
A moderat	the date of the a mount of smok	nt change in t e latest image ke was emanati	the Miao-tou-chery used in the	previous re o dust catch	eport.	

TOP SECRET

-33-

	TIVITY NAME	COUN	TRY
TALLATION OR AC	, II VICE MANE		
-tan-chiana (Cement Plant Wen-chuan		ЭН
M COORDINATES	GEOGRAPHIC COORDINATES		
TEE383185	44-25-24N 129-28-58E		
PREFERENCE			
th RTS. USA	TC, <u>Series 200. Sheet M02</u>	<u>83-25HL, 4th ed, Oct 68, Scale I:</u>	200,000
	CRÉT		
TEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
		•	
	BASIC	DESCRIPTION	
	B/KS 1 O	DESCRIPTION	
There has	been no apparent change	in the Mu-tan-chiang Cement Plant	since
cember of 19	68, the date of the lates	t imagery used in the previous re	DOFT.
Hoavy cmo	ke was emanating from the	stack serving the single kiln on	both .
	ecember 1969.	Stack Scriving The Strigte With ex	
werades in L			
overages in L			
overages in L			
overages in L			
overages in L			
overages in L			
overages in L			
overages in L			

TOP SECRET

-34-

INSTALLATION OR A	CTIVITY NAME		COUNTRY
Nan-ching Cem	ent Plant Kiang-nan		CH
JTM COORDINATES	GEOGRAPHIC COORDINATES		
50SPL864590	32-09-25N 18-58-35E	E	
MAP REFERENCE 8th RTS. USA (SE	TC, Series 200, Sheet M	MO386-23HL, 4th ed, Aug 68	, Scale 1:200,000
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
There has August 1968, -	s been no apparent chan	C DESCRIPTION age in the Nan-ching Cement imagery used in the previo	t Plant since ous report.
August 1968, - A modera	s been no apparent chan the date of the latest	nge in the Nan-ching Cement	ous report.
August 1968, - A modera	s been no apparent chan the date of the latest te amount of smoke was	nge in the Nan-ching Cement imagery used in the previo	ous report.
August 1968, ⁻ A modera	s been no apparent chan the date of the latest te amount of smoke was	nge in the Nan-ching Cement imagery used in the previo	ous report.
August 1968, - A modera	s been no apparent chan the date of the latest te amount of smoke was	nge in the Nan-ching Cement imagery used in the previo	ous report.

APREFERENCE BTH RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed. Aug 68, Scale 1:200,00 (SECRET) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since lanuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October and December 1969 indicating that at least three kilns were operating.	ent Plant since evious report.	COORDINATES GEOGRAPHIC COORDINATES SPL953603 32-10-07N 119-04-01E REFERENCE ORTS. USATC, Series 200. Sheet M0386-23HL. 4th ed. Aug 68, Scale 1:200,000 (SECRET) EST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since muary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	M COORDINATES OSPL953603 32-10-07N 119-04-01E OF REFERENCE th RTS. USATC, Series 200. Sheet M0386-23HL. 4th ed, Aug 68, Scale 1:200,000 (SECRET) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	M COORDINATES OSPL953603 32-10-07N 119-04-01E PREFERENCE th RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed. Aug 68, Scale 1:200,000 (SECRET) TEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
GEOGRAPHIC COORDINATES SOSPL953603 32-10-07N 119-04-01E AP REFERENCE STANDARD Series 200. Sheet M0386-23HL. 4th ed. Aug 68, Scale 1:200,00 (SECRET) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating;	COORDINATES GEOGRAPHIC COORDINATES SPL953603 32-10-07N 119-04-01E REFERENCE ORTS. USATC, Series 200. Sheet M0386-23HL. 4th ed. Aug 68, Scale 1:200,000 (SECRET) EST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since huary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	M COORDINATES GEOGRAPHIC COORDINATES 0SPL953603 32-10-07N 119-04-01E NP REFERENCE th RTS. USATC, Series 200. Sheet M0386-23HL. 4th ed. Aug 68, Scale 1:200,000 (SECRET) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	M COORDINATES GEOGRAPHIC COORDINATES DSPL953603 32-10-07N 119-04-01E PREFERENCE The RTS. USATC, Series 200. Sheet M0386-23HL. 4th ed, Aug 68, Scale 1:200,000 (SECRET) TEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
AP REFERENCE ITH RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed. Aug 68, Scale 1:200,00 (SECRET) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating.;	REFERENCE O RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed, Aug 68, Scale 1:200,000 (SECRET) EST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since huary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	RPREFERENCE th RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed, Aug 68, Scale 1:200,000 (SECRET) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	PREFERENCE th RTS. USATC, Series 200. Sheet MO386-23HL. 4th ed, Aug 68, Scale 1:200,000 (SECRET) TEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating.;	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	TEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating.;	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	TEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating;	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since huary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating;	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since huary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	ent Plant since evious report. stacks in October e operating.	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	BASIC DESCRIPTION There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	evious report. stacks in October e operating.;	There has been no apparent change in the Nan-ching Cement Plant since nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	evious report. stacks in October e operating.;	There has been no apparent change in the Nan-ching Cement Plant since nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	There has been no apparent change in the Nan-ching Cement Plant since anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October
anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	evious report. stacks in October e operating.;	nuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	anuary 1968, the date of the latest imagery used in the previous report. A moderate amount of smoke was issuing from all three stacks in October	A moderate amount of smoke was issuing from all three stacks in October
			,	·
		·		

	TOP SE	909A000700010012-6 CCRET	
NSTALLATION OR ACT	TIVITY NAME		COUNTRY
Nan-ping Cement	.Plant		СН
JTM COORDINATES	GEOGRAPHIC COORDINATES		
50RPE156436	26-36-25N 118-09-35E		
AP REFERENCE 548th RTS. USA (SE	CRET	1 498-10HL. 3rd ed. Anr 68	Scale 1.200 000
		NEGATION DATE (If required)	
		NA	

The Nan-ping Cement Plant has not been seen on interpretable photography since November 1968, the date of the latest imagery used in the previous report.

0741 1 ATION OO AC	FIVETY NAME				COUNTRY	-
STALLATION OR AC	HVIIT NAME					
en-chi Cement	Plant Kung-yuan			•	CH	
TM COORDINATES	GEOGRAPHIC COORDINAT	TES	· -			_
ITWF629720	41-18-11N 123-4	4-46E				
AD BEEEBENCE	TC, Series 200, S	heet M0290-16H	ı 4th ed. J	ul 65. Sca	le 1:200,000	
	CRET	neer MOZJO FOR			•	
		NEGA-	TION DATE (If requi	ired)		_
ATEST IMAGERY USE	.υ	112371	(1011 5711 2 (77 1-1-1			
				NA		
		<u> </u>		<u> </u>	······································	-
		BASIC DESCRIP	TION			
969, the date In Decembers are the manating from	been no apparent of the latest im er 1969 and Janua the stack servin	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembermanating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	
969, the date In Decembers are the manating from	of the latest importance	change in the agery used in	Pen-chi Cem the previous was a modera	te amount	of smoke	

TOP SECRE

23A I

	CTIVITY NAME		COUNTRY
Pen-chi Cemen	t Plant South		CH
ITM COORDINATES	GEOGRAPHIC COORDINATES 41-15-56N 123-43-10E		
MAP REFERENCE US (S	ATC Series 200. Sheet MO2 ECRET	290-16HL 4th ed Jul 65 S	cale 1:200,000
ATEST IMAGERY U	SED	NEGATION DATE (If required)	
		N/A	
	BASIC	DESCRIPTION	
There was some	ne date of the latest ima s no smoke from either st s steam or smoke emanatin indicating that raw mate	e in the Pen-chi Cement Plan gery used in the previous r tack on the referenced image g from the primary grinding rials were probably being p	report.
	•		

		SECRET	
TALLATION OR AC	TIVITY NAME		COUNTRY
			CH
ang-hai Ceme		_	01,
RUE530488	GEOGRAPHIC COORDINATES 31-09-40N 21-27-37E		
REFERENCE d RTS. USAT (SEC	C, Series 200. Sheet MO	1492-7HL , 3r d ed , May 68	, Scale 1:200,000
		NEGATION DATE (If required)	
TEST IMAGERY USI	ED	NEGATION DATE (IT requires)	
		N.F	
969, the date	e of the latest imagery	used in the previous re	
Moderate nat the five	to heavy smoke was emar kilns were operating, o	nafing from all the dus	r catchers, indicating nagery.

	TOP S		
ISTALLATION OR AC	TIVITY NAME		COUNTRY
a-tung Cement	Plant		CH
TM COORDINATES 19SFQ810286	GEOGRAPHIC COORDINATES 39-59-08N 13-07-10E		
AP REFERENCE 5th RTS. USA (SE	TC, Series 200, Sheet MC	382-3HL, 2nd ed, Jul 67, S	Scale 1:200.000
ATEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA	
A moderate	n the imagery used in tr	nating from the dust catche	

25X1 25X1

-41-

TOP SECRET

	·		
NSTALLATION OR AC	TIVITY NAME	•	COUNTRY
Tai-yuan Cemen	t, Plant	•	СН
ITM COORDINATES 49SFM255933	GEOGRAPHIC COORDINATES 37-52-00N 2-25-20E		
MAP REFERENCE	TC Series 200 Sheet MO		Scale 1:200,000
(SE	CRET	, , , , , , , , , , , , , , , , , , , ,	
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
	PACIO.	DECCRIPTION .	
		DESCRIPTION	
There has 969, the date	been no apparent change of the latest imagery us	in the Tai-yuan Cement Planed in the previous report.	nt since March
manating from	ilns were operating in No both stacks. The plant 59 as no smoke was seen.	vember 1969, as indicated did not appear to be opera	by heavy smoke ting in August

25X1

INSTALLATION OR A	CTIVITY NAME		COUNTRY	
_		•		
UTM COORDINATES	ent Plant Chi-hsin		СН	<u>.</u>
				25
50SPJ036878	39-37-47N 118-12-00E			
MAP REFERENCE US/ (S)	ATC, Series 200, Sheet 038 ECRET)	I-2HL, 2nd ed, Jan 64, So	cale 1:200,000	 25)
LATEST IMAGERY US	ED	NEGATION DATE (If required)		
		NA		25
There has December 1968,	BASIC DE been no apparent change in the date of the latest ima	ESCRIPTION the Tang-shan Cement Plagery in the previous rep	ant since	
Heavy smol nousing a tota manating from	been no apparent change in	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings,	
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings,	25. 2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings,	2
December 1968, Heavy smol	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
December 1968, Heavy smol Heavy smol Housing a tota Hemanating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smolousing a total manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2
Heavy smol nousing a tota manating from	been no apparent change in the date of the latest imake was emanating from the s	n the Tang-shan Cement Pl agery in the previous rep stacks serving two kiln b	oort. Quildings, Smoke was	2

-43-TOP SECRET ______ 25X1

ISTALLATION OR AC	CTIVITY NAME				COUNTRY	_
zu-po Cement	Plant Nan-ting				СН	
TM COORDINATES						
OSNR952680	<u> </u>		01 22UL 4+b oc	۱۱ ۵۵ ۵	Socia 1.200 000	
	ATC, <u>Series 200.</u> ECRET	Sheet MUS	81-22ML, 4TN ed	J, Jul 00, 3	scare 1:200,000	
ATEST IMAGERY US	ED		NEGATION DATE (I	f required)		
		7				,
				NA	•	_
reviously, was	completed and	nt,a fourth operationa otwo of the	l by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	Hoper and peceuit	 ction
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	 ction
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	-
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per
reviously, was	s completed and n emanating from	nt,a fourth operationa otwo of the	n kiln, which h I by October 19 e four dust ca	nad been see 969. A mode tchers in Oc	erame amount of ctober and Decemb	etion per

-44=

25X1

		ECRET	
STALLATION OR AC	TIVITY NAME		COUNTRY
lan-nien Possi	ble Cement Plant		CH
TM COORDINATES ORNG062767	GEOGRAPHIC COORDINATES 28-43-30N 17-03-50E		
AP REFERENCE Ind RTS. USAT (SEC	C, Series 200, Sheet MO4	⊣ 93–23HL, 3rd ed, Nov 67, Sc	ale :200,000
ATEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA	
	BASIC	DESCRIPTION	
908, The date	of the imagery used in :	in the Wan-nien Cement Plan the previous report. The p ruction at the site since Se	lant remains

TIVITY NAME	_	COUNTRY
t Plant .		СН
GEOGRAPHIC COORDINATES		
30-38-00N 14-26-00E		
TC Socios 200 Shoot MC	MO3-6HI 4th ed Jan 68 Scale	1:200,000
	475-011E, 4111 ed, Jan 00, Jeare	1.200,000
	NECATION DATE (If required)	
Ь	NEGATION DATE (IT requires)	
	NA	
		
1969 smoke was seen iss operation. The plant d smoke was seen.	uing from the stack serving th lid not appear to be operating	e kiln indicating in July or
	BASIC been no apparent change of the latest imagery use operation. The plant of	GEOGRAPHIC COORDINATES 30-38-00N 114-26-00E TC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale CRET D NEGATION DATE (If required) NA BASIC DESCRIPTION been no apparent change in the Wu-chang Cement Plant of the latest imagery used in the previous report. 1969 smoke was seen issuing from the stack serving the operation. The plant did not appear to be operating

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STALLATION OR ACTIVITY NAME			COUNTRY
			COOMTAI
/u-lu-mu-chi Cement Plant			CH
M COORDINATES GEOGRAPHIC COORDINATES	`		
5TWJ467443 43-44-58N 087-34-55	<u>:</u>		
PREFERENCE			
2nd RTS. USATC, Series 200, Sheet (SECRET√	M0330,3rd ed, Jun 69), Scale 1:20	00,000
<u></u>	Tura		
TEST IMAGERY USED	NEGATION DATE (If re	quired)	
	NA NA		
BAS	C DESCRIPTION		
There has been no apparent ch	ange in the Wastusmus	chi Cement F	Plant since

NSTALLATION OR A	CTIVITY NAME		COUNTRY
			СН
Wu-sung Cemen		·	
51RUE532709	GEOGRAPHIC COORDINATES 31-21-42N 121-27-20E		
AAP REFERENCE	·		
2nd RTS. USA	TC, <u>Series 200, Sheet M</u>	0492-2HL, 3rd ed, Dec 68, Scal	e 1:200,000
(SE	CRET,		
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
		C DESCRIPTION	
1969, the da	te of the latest imagery	nge in the Wu-sung Cement Plant used in the previous report. emanating from the stack indic ecember 1969.	

-48-

TOP SECRET

25X1

ISTALLATION OR A	CTIVITY NAME		COUNTRY
Yao-hsien Cem	ment Plant .		CH
TM COORDINATES	GEOGRAPHIC COORDINATES	T	1
49SCJ I 45675 AP REFERENCE	34-54-20N 108-59-20E		
15th RTS. US	SATC, Series 200, Sheet MO	384-10HL. 2nd ed. Jun 68. Sc.	ale 1:200 000
TEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	ESCRIPTION in the Yao-hsien Cement Plansed in the previous report. anating from two of the three thr	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
1968, The dat A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
1968, The dat A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
1968, The dat A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
968, the dat A modera	is been no apparent change e of the latest imagery us te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May
1968, The dat A modera	is been no apparent change e of the latest imagery u te amount of smoke was em	in the Yao-hsien Cement Plansed in the previous report.	e stacks in May

ISTALLATION OR AC	TIVITY NAME		COUNTRY
ing-te Cement	· Plant	•	СН
-	GEOGRAPHIC COORDINATES 24-19-10N 113-27-20E		
AP REFERENCE 5th RTS. USA (SE	ATC, Series 200, Sheet 04 CRET)	198–21HL, Ist ed, Mar 62, Sca	le I:200,000
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
<u> </u>	BASIC [DESCRIPTION	
ince February	y 1969, the date of the incomplete and there has	e in the status of the Ying-t imagery used in the previous s been no construction at the	report. The
Jecember 1902			

25X1

NSTALLATION OR AC	TIVITY NAME				COUNTRY	-
'ung-an Cement	Plant				CH .	,
TM COORDINATES ORND318793	GEOGRAPHIC COOF 26-01-40N					
AP REFERENCE USA (SE	TC, Series 200 CRET	0, Sheet MO4	98-14HL, 3rd e	ed, Dec 67. Sca	le 1:200.000]
ATEST IMAGERY USE	D		NEGATION DATE (If required)		-
		_				
				NA		
nce November e plant remair	968, the date incomplete	ent change i e of the late	est imagery us	f the Yung-an (ed in the previ nificant constr	ious report.	•
nce November e plant remair	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remair	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	-
nce November	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	-
nce November e plant remair	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remair	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remair	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remain e site since .	968, the date	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remain e site since .	968, the date incomplete	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	
nce November e plant remain e site since .	968, the date	ent change i e of the late	n the status o est imagery us	f the Yung-an (ed in the prev	ious report.	

TOP SECRET

NSTALLATION OR ACTIVITY	NAME			COUNTRY	-
				J SSONTK!	
ung-teng Cement Pla	ant .			СН	
	RAPHIC COORDINATES				
35UR408773 36-4 AP REFERENCE	19-50N 103-13-00E				
	200, Sheet MO383-	16HL, 2nd ed, 9	Sep 68. Scale	1:200,000	
(SECRET/		•		, , , , ,	
ATEST IMAGERY USED		NEGATION DATE	E (If required)		
		i	NA		
	RASI	C DESCRIPTION			
	no apparent change				
68, the date of th Heavy smoke was	emanating from the			969 indicating	
68, the date of th	emanating from the			969 indicating	
68, the date of th Heavy smoke was	emanating from the			969 indicating	
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68, the date of th Heavy smoke was	emanating from the			969 indicating	

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